

**DEPARTMENT OF THE ARMY PERMIT**  
**Regional Permit 27**  
**Emergency Reconstruction and Repair Activities for Flood Damaged Areas**  
**In All Waters of the United States**  
**In the State of Iowa**

**Permittee:** General public meeting the terms and conditions herein.

**Number:** CEMVR-OD-P-2015-966 (Regional Permit 27).

**Expiration Date:** July 29, 2021

**Issuing Office:** U.S. Army Corps of Engineers, Rock Island District, Clock Tower Building - P.O. Box 2004, Rock Island, Illinois 61204-2004.

You are authorized to perform work in accordance with the terms and conditions specified below.

**NOTE:** The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

**Project Description.** Work is authorized to excavate and/or place fill material for protection and/or repair of existing flood damaged structures, damaged land areas and/or damaged fills that are not exempted or already authorized by Nationwide, Regional or Individual permits as follows:

1. Repair of levees to existing/authorized elevations and cross-section, including breach closures and borrow operations.
2. Bridge embankment protection (armoring) and/or repair.
3. Repair of pre-existing highway or railroad embankments and the addition or repair of stone (armoring) protection.
4. Repair of pre-existing utility protection structures.
5. Placement of rock and/or earth materials for stream or ditch bank protection and/or stream or ditch bank restoration.
6. Drainage channel/ditch restoration to pre-flood capacity and flow line unless the flow line must be altered due to other damage associated with the flood event.
7. Restoration of creek channels to pre-flooding alignment and capacity.
8. Construction of temporary haul roads and temporary fills to facilitate the completion of any of the listed activities.

**Note:** Maintenance of existing flood damaged structures and/or flood damaged fills, which have been previously authorized, may be authorized by Nationwide Permit No. 3 or exempted by Part 323.4 of Federal regulations 33 CFR 320-331. The repair of uplands damaged by storms, floods or other discrete

events may be authorized by Nationwide Permit No. 45 upon notification and review by the appropriate Corps of Engineers District, Regulatory Branch.

**Project Location.** This Regional Permit will authorize work in waters of the United States (including rivers, lakes, streams and wetland areas) associated with emergency reconstruction and repair activities in counties declared flood disaster areas by the State of Iowa.

**Permit Conditions:**

❖ **General Conditions:**

1. Parties proposing to undertake work under the provisions of this regional permit must provide prior notification to the appropriate Corps of Engineers District. Information submitted by the proponent must clearly demonstrate whether or not the proposed work complies with the conditions and limitations of the regional permit. The proponent will be notified within approximately 15 workdays if the project is in compliance with the conditions of the regional permit and whether project construction may proceed. However, this will not alleviate the need of the proponent to obtain other applicable state or local authorization. The following information is required:

- A completed application form.
- A drawing showing the location and details of the proposed or completed work
- The information submitted must clearly describe the proposed or completed work.

2. The time limit for completing the work authorized ends 180 days from the date of each individual project determination. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before that date is reached.

3. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party, in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

4. **Discovery of Previously Unknown Remains and Artifacts.** If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. If human remains or an unmarked human burial is encountered, immediately cease work within a 100-foot radius from the discovery, and notify the district engineer. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

5. If you sell the property associated with this permit, you must obtain the signature of the new owner in the attachment provided and forward a copy of the permit to this office to validate the transfer of this authorization.

6. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions. (Condition is not applicable for Section 10 Permits.)

7. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

❖ **Special Conditions:**

1. This Regional Permit authorizes the discharge of dredged or fill material and other work associated with emergency restoration, repair, or reconstruction measures performed in waters of the United States within the State of Iowa as a result of damages incurred during flooding. Work will be limited to that necessary to restore damaged areas to pre-flood conditions. The time period for completing the proposed work is 180 days from each permit determination.

2. All channel restoration work will be limited to restoring the area to pre-flood conditions and verified using United States Department of Agriculture, Natural Resource Conservation Service, aerial photographs; or other quantifiable data, plans, etc. Channel restoration of areas not caused by the recent flooding, is not authorized under this Regional Permit.

3. Clean, uncontaminated materials must be used for fill in order to minimize excessive turbidity by leaching of fines, as well as to preclude the entrance of deleterious and/or toxic materials into waters of the United States by natural runoff or by leaching. All fill materials must be obtained from upland non-wetland sources or authorized excavation sites. Use of small aggregate materials, such as creek gravel, for stabilization and erosion control is prohibited under this Regional Permit.

4. Temporary levees, cofferdams, accesses, and other fills must involve the least damaging and minimum disturbance or impacts to waters of the United States. Appropriate measures must be taken to maintain near normal downstream flows and to minimize flooding. Fill must be of materials and placed in a manner that will not be eroded by expected high flows. Temporary fill (including sandbags) must be entirely removed to upland non-wetland areas following completion of the construction activity and the affected areas restored to the pre-project conditions. Cofferdams cannot be used to dewater wetlands or other aquatic areas so as to change their use.

5. Any construction debris or waste materials may not be disposed of below the ordinary high water mark of any water body, in a wetland area, or at any location where the material could be introduced into the water body or an adjacent wetland as a result of runoff, flooding, wind, or other natural forces.

6. All dredged or excavated materials, with the exception of that authorized herein, will be placed on an upland site above the ordinary high water line in a confined area, not classified as a wetland, to prevent the return of such material to the waterway.

7. All excavation, dredging, and/or filling in the watercourse must be conducted in a manner that will minimize increases in suspended solids and turbidity which may degrade water quality and damage aquatic life outside the immediate area of operation.

8. All debris during every phase of the project must be immediately removed and properly disposed of in order to prevent accumulation of unsightly, deleterious and/or toxic material in or near the water body.

9. All construction materials, equipment, and/or petroleum products, when not in use, must be stored above anticipated high water levels.

10. All structures will be designed and constructed in such a way that they do not result in stream channel constriction or in redirection of flows in such a way as to cause upstream or downstream erosion, or other property damage.

11. The clearing of timber and other vegetation will be restricted to the absolute minimum required to accomplish the work. The removal of mature trees must be avoided to prevent potential impacts to bald eagle roost sites. To protect the Indiana bat and Northern long-eared bat maternity roosting trees, tree removal cannot occur from April 1 through September 30 for this permit to be valid. If tree clearing will be requested during this time period, the Corps will coordinate further with the United States Fish and Wildlife Service to determine the impacts to the Indiana bat and the Northern long-eared bat.

12. Upon completion of earthwork operations, all fills in the water or on shore, and other areas on shore disturbed during construction must be seeded, replanted, or otherwise protected from erosion. The use of crown vetch (*Corinilla varia*), birdfoot trefoil (*Lotus corniculatus*), Canada thistle (*Cirsium arvense*), bull thistle (*Cirsium vulgare*), wild parsnip (*Pastinaca sativa*), common reed (*Phragmites australis*), Eurasian honeysuckles (*Lonicera spp.*), buckthorns (*Rhamnus cathartica* and *R. frangula*), white and yellow sweet clovers (*Melilotus alba* and *M. officinalis*), Japanese Hops (*Humulus japonicus*), canary grass (*Phalaris arundinacea*), purple loosestrife (*Lythrum salicaria*), smooth brome grass (*Bromus inermis*), and switch grass (*Panicum virgatum*) should be avoided. If seeding does not successfully vegetate the disturbed areas by the end of the first growing season, alternate measures, such as placing riprap, slope terracing with untreated railroad ties, gabions or concrete blocks, or additional vegetative plantings to protect the disturbed areas from further erosion must be implemented. You must contact the Corps of Engineers prior to beginning work on any additional erosion control measures so that we can determine if further authorization will be required.

13. Only graded rock, quarry-run rock and/or clean concrete rubble may be used for riprap. The material must be reasonably well graded, consisting of pieces varying in size from 20 pounds up to and including at least some 150-pound pieces. Generally, the maximum weight of any piece should not be more than 500 pounds. Gravel and dirt should not exceed 15 percent of the total fill volume. If concrete rubble is used, all large slabs must be broken to conform to the well-graded requirement. All exposed reinforcement rods, trash, asphalt, and other extraneous materials must be removed before the rubble is placed in waters of the United States

14. All temporary fills, including sand bags, in the waters of the United States must be completely removed within 30 days of the end of the flood emergency and disposed of in accordance with special conditions included in the regional permit.

15. This permit does not authorize construction in any environmentally sensitive area, such as mussel beds, fish spawning areas, waterfowl nesting areas, etc.

16. Measures must be taken for heavy equipment usage in wetland areas to minimize soil disturbance and compaction. All exposed soils and other fills as well as any work below the ordinary high water mark must be permanently stabilized at the earliest practicable date using permanent native vegetation, bioengineering methods, or armoring.

17. Any excavation or placement of temporary or permanent fill must be performed in a way that would not result in the physical destruction of important fish spawning areas, including smothering of downstream spawning areas via turbidity.

18. Petroleum products, other chemicals, and other unsuitable materials (e.g. trash, debris, asphalt, etc.) will be prevented from entering water bodies, streams, and wetlands.

19. Appropriate soil erosion and sediment control measures must be used and maintained during project construction.

20. Temporary and permanent structures must be installed to maintain low flow conditions and to pass normal and expected high flows.

21. The United States shall not be responsible for damage to property or injuries to persons which may arise from or be incidental to the work herein authorized, and the permittee shall hold the United States harmless from any and all such claims, except to the extent that the damage or injury is caused solely by the negligence of the United States.

22. The project proponent must notify the appropriate public or private utility in advance of any work within 250 feet of an underground utility so that the utility is not damaged during construction activities.

23. This authorization does not eliminate the requirement that you must still acquire other applicable Federal, state, and local permits. If you have not already coordinated your project with the IADNR, please contact them by telephone 866/849-0321 to determine if a floodplain development permit is required for your project. You should also contact Mr. Seth Moore, in writing or telephone 515/725-8464 to determine if a sovereign lands construction permit is required or if this project may adversely impact Iowa threatened or endangered species or their habitat.

24. Applicable general conditions from the standard individual Department of the Army permit will also be included as conditions of this regional permit.

25. **Water Quality Certification.** Water quality certification. The conditions listed in the Section 401 water quality certification from the Iowa DNR Water Quality Section are to be considered part of this regional permit and must be followed as such (once issued).

26. **Mitigation.** Mitigation may be required on a case-by-case basis for all completed and/or proposed wetland fill activities authorized by this regional permit. The following requirements are applicable for projects requiring mitigation:

- a. **Mitigation:** Compensatory mitigation projects provided to offset losses of aquatic resources must follow the regulations published in the Federal Register dated April 10, 2008 under 33 CFR Parts 325 and 332 and 40 CFR Part 230 entitled "Compensatory Mitigation for Losses of Aquatic Resources, Final Rule".
- b. **Mitigation Plan:** The mitigation plan will include adequate mitigation acreage to mitigate for the loss of any wetland area. A summary of the approved acres and performance measures for the mitigation plan will be incorporated into the Regional Permit as follows:

Mitigation Design Objectives/Performance Measures

Type:	Mitigation					
	Emergent (acres)	Forested (acres)	Open-Water (acres)	Other * (acres)	Total (acres)	Stream Channel Length (feet)
Restoration:						
Creation:						
Enhancement:						
Preservation:						
Total:						

\* Replace "Other" with actual type of mitigation ("Upland", "Woodland", etc.)

If excavation and construction are completed outside an optimal seeding period, temporary erosion control protection shall be implemented immediately upon completion of excavation and construction and shall be maintained until such time as wetland plantings can be completed during an optimal period. The permanent wetland plantings shall then be completed during the next optimal seeding period. In addition:

- The boundaries of the wetland mitigation sites shall be identified clearly by the placement of permanent boundary markers.
- An as-built plan shall be submitted to the Corps of Engineers upon project completion.
- Any future development or land-use conversion of the mitigation area for any purpose which may interfere with or be detrimental to wetland functions is prohibited without prior written approval from the Corps of Engineers.

c. Mitigation Monitoring.

- Mitigation work shall begin concurrent with the initiation of project construction. The mitigation work shall be completed within one year of the initiation of project construction on the site.
- The permittee shall notify this office in writing upon the completion of the mitigation plan. The permittee shall be responsible to perform any corrective actions deemed necessary by this district to insure success.

d. Reporting. The permittee shall provide an annual report to the Corps of Engineers documenting the extent of the mitigation completed.

- The permittee shall conduct an annual survey of the mitigation area to monitor the survival rate of the plantings, and soil and hydrology conditions at the site. The results of the survey will be documented annually on the Rock Island District Standard Mitigation Reporting Form also available at: <http://www.mvr.usace.army.mil/Missions/Regulatory.aspx> or in an annual progress report as specified in RGL 08-03,

<http://www.mvr.usace.army.mil/Missions/Regulatory/WetlandMitigation.aspx> . These annual reports are due no later than August 31 of each year for the 5-year period. All annual monitoring reports shall be formatted for an 8.5 x 11 inch piece of paper. The mitigation monitoring reports shall be submitted to the Corps of Engineers. Reports are due as follows:

- Year 1 – due August 31 – 1 year after construction is initiated.
  - Years 2 through 5 – due each succeeding year.
- These reports shall include the following information at a minimum:
- Data point(s) collected utilizing the Wetland Determination Data Form for the appropriate region, typically Midwest, from the US Army Corps of Engineers.
  - Information concerning the survival rate of all plant species which were to be established at the mitigation site. This information shall be collected by a qualified biologist.
  - Annual photographs (taken during the growing season) showing representative areas of the site.
  - Additional guidance on the monitoring reports may be found in the Regulatory Guidance Letter 08-03 dated October 10, 2008.
  - Vegetative cover map indicating dominant cover species in each area.
  - Wetland plant, soil, and hydrology assessment utilizing the procedures in the following documents:
    - *Wetlands Research Program Technical Report Y-87-1 Corps of Engineers Wetlands Delineation Manual, January 1987.*
    - *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, September 2008.*
  - Monthly surface water elevations at the site.
- e. Survival of plantings. All newly planted trees and emergent plant species will be guaranteed for 85 percent survival for five growing seasons. Any newly planted tree or shrub (including replacements), which dies to the point that the main leader has died back or where there is 25 percent or more of the crown dead, shall be replaced. All replacements will be of the same species and size to provide equal wildlife value and function as originally intended. Damages incurred in making replacements must be repaired.
- f. Liability. The permittee shall assume all liability for accomplishing any needed corrective work should the District Engineer determine that the mitigation is not satisfactory. Remedial work may include regrading and/or replanting the mitigation site. This responsibility shall extend for a period of 5 years upon completion of the mitigation work. The permittee shall take immediate proactive steps necessary to correct any deficiencies outlined in the monitoring reports and shall

coordinate with this office during implementation to insure compliance with the terms and conditions in this permit.

- g. **Financial Assurances.** A description of financial assurances (bonds, escrow accounts, etc.) that will be provided and how they are sufficient to ensure a high level of confidence that the compensatory mitigation project will be successfully completed in accordance with its performance standards (33 CFR 230.93(n)).
- h. Your responsibility to complete the required compensatory mitigation will not be considered fulfilled until you have demonstrated mitigation success and have received written verification from the U.S. Army Corps of Engineers.

<<<<    **END OF SPECIAL CONDITIONS**    >>>>

**Further information:**

1. **Congressional Authorities:** You have been authorized to undertake the activity described above pursuant to:

- ( X ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- ( X ) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- (   ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. **Limits of this authorization.**

- a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. **Limits of Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.



- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. **Reliance on Applicant's Data.** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. **Extensions.** General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

This permit becomes effective when the Federal official, designated to act for the District Engineer, has signed below.

Ward Lenz Date 29/July/2016  
G. Ward Lenz  
Rock Island District  
Chief, Regulatory Branch

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
Transferee  
\_\_\_\_\_  
Date



# STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR  
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
CHUCK GIPP, DIRECTOR

July 13, 2016

Mr. Ward Lenz  
Chief, Regulatory Branch  
Rock Island District Corps of Engineers  
Clock Tower Building – PO BOX 2004  
Rock Island, IL 61204-2004

Subject: Section 401 Water Quality Certification for Regional Permit 27  
Emergency Reconstruction and Repair Activities for Flood Damaged Areas in All Waters of  
the United States in the State of Iowa (CEMVR-OD-P-2015-0966)

Dear Mr. Lenz,

The Iowa Department of Natural Resources (IDNR) has examined the information furnished by the Rock Island District Corps of Engineers in the February 8, 2016 Joint Public Notice and the final Regional Permit 27. This conditional Section 401 Water Quality Certification is hereby granted for Regional Permit 27 by the IDNR under the authority of Section 401 of the Clean Water Act. The IDNR certifies RP 27 (CEMVR-OD-P-2015-0966) because there is reasonable expectation that the activities identified within it will be conducted in a manner that will not violate Iowa's water quality standards.

### Conditions

1. For any project that occurs on a water body listed in the Iowa Department of Natural Resources (IDNR) "Special Waters of Concern" list, the Corps of Engineers will contact the IDNR for project-specific comments/conditions to protect the water quality/aquatic resources of the site prior to finalizing the permit decision. The list of Special Waters of Concern is attached.
2. An individual Section 401 Water Quality Certification will be required for any project occurring within an Outstanding Iowa Water or its designated watershed/drainage area. The list and maps of the Outstanding Iowa Waters and their designated watersheds/drainage areas can be found on the IDNR website.
3. An individual Section 401 water quality certification will be required for projects that impact fens, bogs, seeps, or sedge meadows.

If you have any questions or comments regarding this Section 401 Water Quality Certification, please contact me at the address shown below or call (515) 725-8399.

Sincerely,

A handwritten signature in blue ink that reads "Christine M Schwake".

Christine M. Schwake  
Environmental Specialist

## Iowa Special Waters of Concern

### Coordinate for comments:

Mississippi River

Missouri River

Category 4c 303(d) list water bodies (most recently EPA-approved list)

### Coordinate for Section 401 Water Quality Certification:

Outstanding national resource waters (currently, Iowa doesn't have any)

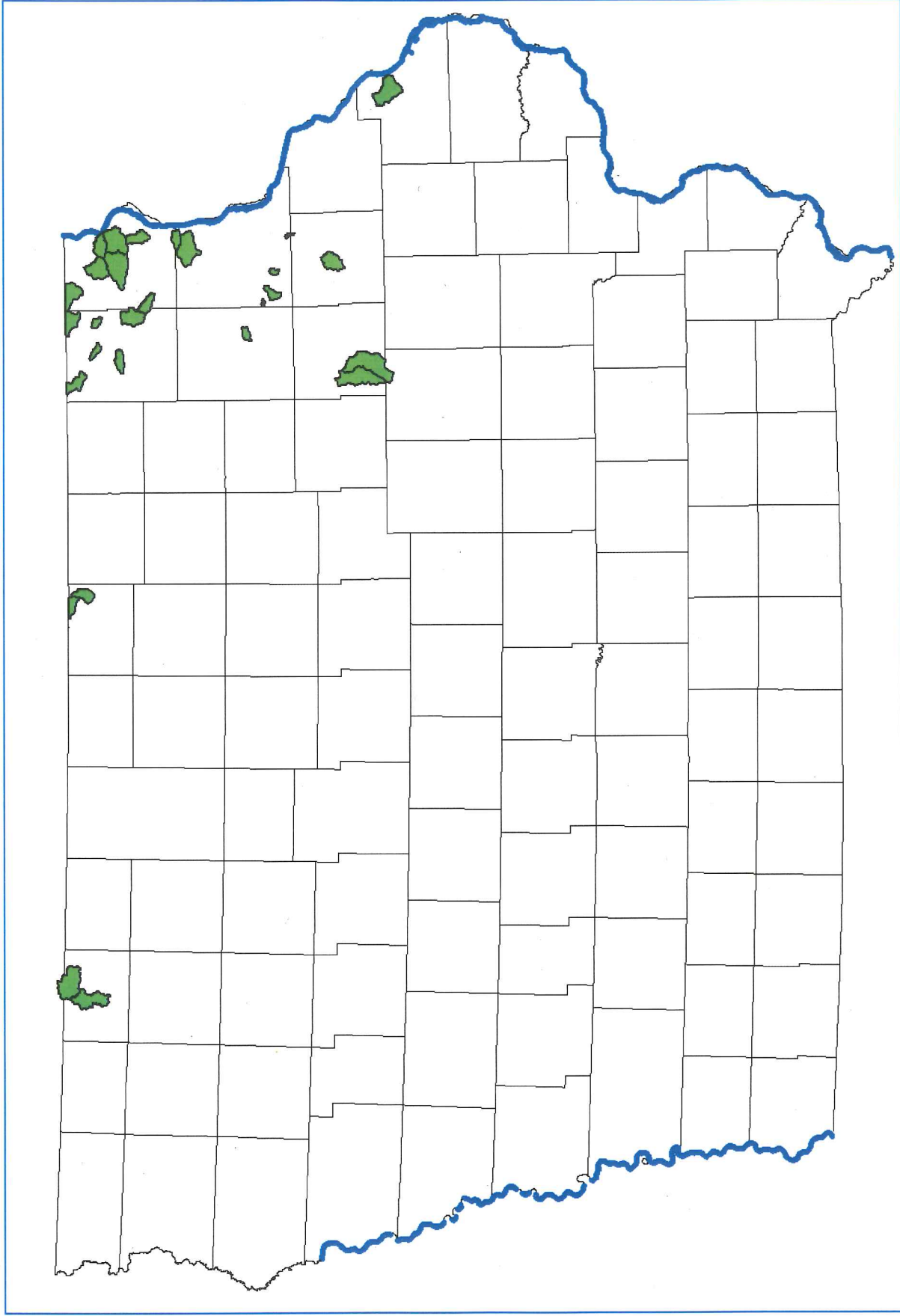
Outstanding Iowa Waters

Fens

Bogs

Seeps

Sedge meadows



■ Outstanding Iowa Waters (OIWs)  
■ Special Waters of Iowa (Mississippi River, Missouri River, also includes the OIWs)

Category 4c Impaired Waters September 11, 2015

<u>County(ies)</u>	<u>Water body</u>	<u>Location</u>
Adams	Binder Lake	S25, T72N, R34W
Boone & Dallas	Little Beaver Creek	S14, T81N, R27W (Dallas) to S29, T82N, R27W (Boone)
Cherokee & Ida	Maple River	S13, T88N, R40W (Ida) to S5, T91N, R39W (Cherokee)
Cherokee	Maple Creek	S5, T91N, R39W to S1, T91N, R39W
Clarke	South White Breast Creek	S3, T71N, R24W to headwaters in S13, T71N, R26W
Clayton	Roberts Creek	S25, T94N, R5W to S16, T94N, R5W
Dallas & Boone	Little Beaver Creek	S14, T81N, R27W (Dallas) to S29, T82N, R27W (Boone)
Des Moines	Allen Green Refuge Marsh	S29, T72N, R1W
Fremont	Missouri River	Entire length
Guthrie	Lakin Slough	S34, T81N, R30W
Harrison	Round Lake	S13, T80N, R45W
Harrison	Missouri River	Entire length
Harrison & Shelby	Mosquito Creek	S9, T78N, R41W (Harrison) to NW 1/4, S12, T80N, R40W (Shelby)
Ida & Cherokee	Maple River	S13, T88N, R40W (Ida) to S5, T91N, R39W (Cherokee)
Ida	Halfway Creek	S22, T89N, R39W to SE 1/4, S24, T89N, R39W
Jasper & Poweshiek	North Skunk River	S20, T78N, R16W (Poweshiek) to S22, T81N, R19W (Jasper)
Kossuth & Winnebago	Little Buffalo Cr. (aka N. Buffalo)	S4, T97N, R27W (Kossuth) to S5, T98N, R26W (Winnebago)
Louisa	Klum Lake	S25, T75N, R2W
Lucas	White Breast Creek	S11, T73N, R22W to S22, T72N, R23W
Mahaska & Marion	Des Moines River	S33, T75N, R17W (Mahaska) to S19, T76N, R18W (Marion)
Marion & Mahaska	Des Moines River	S33, T75N, R17W (Mahaska) to S19, T76N, R18W (Marion)
Mills	Missouri River	Entire length
Monona	Missouri River	Entire length
Monona	Badger Lake	S29, T85N, R46W
Monona	Blencoe Lake	S31, T82N, R45W
Monona	Upper Blencoe Bend	S7, T82N, R46W
Monona	Rabbit Island Lake	S28, T85N, R47W
Pocahontas	Little Clear Lake	S6, T91N, R34W
Pottawattamie	Missouri River	Entire length
Poweshiek & Jasper	North Skunk River	S20, T78N, R16W (Poweshiek) to S22, T81N, R19W (Jasper)
Sac	Black Hawk Wildlife Area	S9, T86N, R36W
Shelby & Harrison	Mosquito Creek	S9, T78N, R41W (Harrison) to NW 1/4, S12, T80N, R40W (Shelby)
Winnebago & Kossuth	Little Buffalo Cr. (aka N. Buffalo)	S4, T97N, R27W (Kossuth) to S5, T98N, R26W (Winnebago)
Woodbury	Missouri River	Entire length